Index of Claims

Application/Control No.

James M. Hannett

Applicant(s)/Patent under Reexamination

09/545,577

PELZ, JEFF B.

Examiner

Art Unit

2612

Rejected Allowed

(Through numeral) Cancelled Restricted

**Non-Elected** N Interference

**Appeal** Α 0 Objected

| Cla      | Date     |          |          |  |              |              |              |  | Claim        |  |   |       | Date     |          |          |   |  |          |          |                                     |   |
|----------|----------|----------|----------|--|--------------|--------------|--------------|--|--------------|--|---|-------|----------|----------|----------|---|--|----------|----------|-------------------------------------|---|
| Final    | Original | 5/21/04  | 20/9/5   | 2/2/06   |              |              |              |  |              |  |   | Final | Original |          |          |   |  |          |          |                                     |   |
|          | 1        | 1        | 1        | 1  |              |              |              |  |              |  |   |       | 51       |          |          |   |  |          |          |                                     | Γ |
|          | 2        | 1        | 1        | 1  |              |              | Г            |  | Γ            |  |   |       | 52       |          |          |   |  |          |          | Г                                   | Γ |
|          | 3        | 1        | 1        | 1  |              |              |              |  |              |  |   |       | 53       |          |          |   |  |          |          |                                     | Γ |
|          | 4        | 1        | 4        | 1  |              | L            |              |  |              |  |   |       | 54       |          |          |   |  |          |          |                                     | ľ |
|          | 5        | 1        | 1        | 1  |              |              |              |  | _            |  |   |       | 55       |          |          |   |  |          |          |                                     | L |
|          | 6        | 1        | 1        | √  |              |              |              |  |              |  |   |       | 56       |          |          |   |  |          |          |                                     |   |
|          | 7        | 1        | 1        | 1  |              |              |              |  |              | L  |   |       | 57       |          |          |   |  |          |          |                                     |   |
|          | 8        | 1        | 4        | <b>√</b>   |              | L            |              |  |              |  |   |       | 58       |          |          |   |  |          |          | L                                   | L |
|          | 9        | 1        | √        | √  | <u></u>      |              | ᆫ            | L  | L            |  |   |       | 59       |          | _        |   |  |          |          | 匚                                   | L |
|          | 10       | √        | √        | 4  | L            |              | <u> </u>     | _  | L            | L  |   |       | 60       |          | _        |   |  |          | L        | L                                   | L |
|          | 11       | 1        | √        | √  |              |              |              | L.   | _            |  |   |       | 61       |          | $\dashv$ |   |  |          | L_       | L                                   | L |
|          | 12       | 1        | 1        | √  |              | _            |              | L.   |              |  |   |       | 62       | $ \bot $ |          |   |  |          | _        | ㄴ                                   | L |
|          | 13       | 1        | √        | 1  |              | _            |              | _  |              |  |   |       | 63       | $\Box$   | _        |   |  |          | 匚        | L                                   | L |
|          | 14       | 1        | √        | 1  |              |              |              |  |              |  |   |       | 64       |          | _        |   |  |          | _        | L                                   | L |
|          | 15       | V        | 1        | √.   |              | _            | L            | _  | <u>_</u>     | _  |   |       | 65       |          | _        |   |  |          | _        | L                                   | L |
|          | 16       | 1        | √        | 1  |              |              | L            | _  |              |  |   |       | 66       |          | _        |   | _  |          | _        | L                                   | L |
|          | 17       | √        | 1        | 1  |              | _            |              |  | _            | _  |   |       | 67       |          | _        |   |  |          | _        | 匚                                   | L |
|          | 18       | √        | 1        | 1  | $oxed{oxed}$ | _            | L            | _  | <u> </u>     |  |   |       | 68       |          |          |   |  |          | L        | 匚                                   | Ļ |
|          | 19       | 1        | 1        | 1  |              | _            | _            |  | _            | _  |   |       | 69       |          | _        |   | _  |          | L_       | L                                   | L |
|          | 20       | 1        | 1        | 1  | <u> </u>     |              |              | <u> </u>   | $oxed{oxed}$ |  |   |       | 70       | _        | _        | _ | _  | _        | <u> </u> | ᆫ                                   | L |
|          | 21       | 1        | 1        | 1  | L            |              | L            | L  | _            |  |   |       | 71       |          | _        |   |  |          | _        | L                                   | Ļ |
|          | 22       | 1        | 1        | 1  |              |              | L            | _  | <u> </u>     | L_   |   |       | 72       | $\Box$   | _        |   | _  |          |          | L                                   | Ļ |
|          | 23       | 1        | 1        | 1  |              | _            | L            | _  |              | L  |   |       | 73       | $\Box$   | _        |   |  |          |          | 匚                                   | Ļ |
|          | 24       | 1        | 1        | .√   |              |              | _            |  |              |  |   |       | 74       |          | _        |   |  |          |          | L                                   | Ļ |
|          | 25       | V        | 1        | 1  |              | _            |              | _  |              |  |   |       | 75       |          |          |   |  |          |          | <u>L</u>                            | Ļ |
| L        | 26       | 1        | 1        | 1  | <u> </u>     | <u> </u>     | _            | _  | <u> </u>     |  |   |       | 76       | _        | _        |   |  |          | _        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ļ |
|          | 27       | 1        | 1        | 1  | _            | _            | _            | _  |              |  |   |       | 77       |          | _        |   | _  |          | _        | L                                   | Ļ |
| <u></u>  | 28       | √.       | √        | 1  |              | _            |              | L  | _            | _  |   |       | 78       | $\dashv$ | _        | _ | _  |          | _        | ╙                                   | Ļ |
|          | 29       | 1        | √.       | 1  | <u> </u>     |              | _            | <u> </u>   |              | _  |   |       | 79       | $\Box$   | _        |   |  |          | _        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ļ |
| <u> </u> | 30       | 1        | \ √      | 1  | _            |              | <u> </u>     | _  | L            |  |   |       | 80       |          | _        |   |  |          | _        | L                                   | Ļ |
| <u> </u> | 31       | 1        | 1        | 1  | ļ            | _            | L            |  | L            |  |   |       | 81       | $\dashv$ | _        | _ | _  |          | L        | L                                   | ļ |
|          | 32       | 1        | 1        | 1  | L.           | _            | <u> </u>     | <u> </u>   | <u> </u>     | <u> </u>   |   |       | 82       |          | _        |   | L  |          | _        |                                     | Ļ |
|          | 33       | 1        | 1        | 1  |              | _            | <u> </u>     | _  | <u> </u>     | _  |   |       | 83       |          |          | _ | _  | _        | <u> </u> | <b> </b>                            | ╀ |
| <u> </u> | 34       | 1        | 1        | 1  | _            | <u> </u>     | <u> </u>     | _  | ┡            | _  |   |       | 84       | $\dashv$ | _        | _ | _  |          | <u> </u> | L                                   | ╀ |
|          | 35       | 1        | 1        | 1  | <u> </u>     | <del> </del> | ┡            | <u> </u>   | _            |  |   |       | 85       | _        | _        | _ | _  |          | <u> </u> | <u> </u>                            | ╀ |
|          | 36       | 1        | 1        | 1  | ├            | <u> </u>     | _            |  | <u> </u>     | <u> </u>   |   |       | 86       |          | _        | _ |  | ļ        | _        | ⊢                                   | ╀ |
| <b></b>  | 37       | 1        | 1        | 1  |              | <u> </u>     | _            | _  | $\vdash$     | $\vdash$   |   |       | 87       | $\dashv$ | _        | _ |  | ļ        | <u> </u> | <del> </del>                        | ╀ |
| <u> </u> | 38       | 1        | 1        | 1  | $\vdash$     | _            | <u> </u>     |  | ├            | _  |   |       | 88       |          | _        | _ | <u> </u>   | ⊢        | -        | <del>  -</del>                      | ╀ |
| $\vdash$ | 39       | Ĭ.       | 1        | 1  | ├            | <u> </u>     | <del> </del> | -  | ⊢            | ļ  |   |       | 89       |          | -        |   | <u> </u>   | ├        | -        | $\vdash$                            | ╀ |
| <u> </u> | 40       | 1        | 1        | 1  | -            | ├—           | ⊢            |  | $\vdash$     | ├  |   |       | 90       | $\vdash$ | 4        | - | <u> </u>   | -        | $\vdash$ | ⊢                                   | ╀ |
| $\vdash$ | 41       | 1        |          | _  | $\vdash$     | $\vdash$     | $\vdash$     |  | -            | $\vdash$   |   |       | 91<br>92 | $\vdash$ | -        |   | <u> </u>   | $\vdash$ | -        | ├-                                  | ╀ |
|          | 42<br>43 | \<br>√   | 1        | 1  | -            | -            |              | $\vdash$   |              | ├  |   |       | 93       |          |          |   | $\vdash$   |          |          | <del> </del>                        | ╀ |
| $\vdash$ | 44       | 1 V      | <b>∀</b> | \<br>√   | -            | $\vdash$     | -            | $\vdash$   | -            | -  |   |       | 93       | $\dashv$ | $\dashv$ |   | -  |          | ⊢        | -                                   | ╀ |
| -        | 45       | -        | 1        | 1  | -            | -            | -            | $\vdash$   | $\vdash$     | $\vdash$   |   | -     | 95       | $\dashv$ | $\dashv$ | - | <del> </del>                                     | $\vdash$ | ╁        | $\vdash$                            | ╁ |
|          | 46       | -        | \<br>√   | V  | $\vdash$     | $\vdash$     | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$   |   |       | 96       | $\dashv$ | $\dashv$ |   | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash$                            | + |
| $\vdash$ | 47       | -        | Ť        | <del>  `</del>                                   | -            | $\vdash$     | -            | $\vdash$   | $\vdash$     | ┢  |   |       | 97       |          | -        |   | $\vdash$   | $\vdash$ | -        | $\vdash$                            | t |
| $\vdash$ | 48       | $\vdash$ | -        | <del>                                     </del> | $\vdash$     | ╁            | $\vdash$     | ┢  | -            | ├-   |   |       | 98       | $\vdash$ | $\dashv$ |   | <del>                                     </del> | $\vdash$ | $\vdash$ | $\vdash$                            | t |
| -        | 49       | $\vdash$ | -        | ┢╌   | -            | ╁            | -            | -  | $\vdash$     | $\vdash$   |   |       | 99       | $\dashv$ |          | - |  | ├─       | ╁        | <del> </del>                        | + |
|          | 50       | -        |          | ┢  | -            | $\vdash$     | -            | <del>                                     </del> | ┢            | <del>                                     </del> |   |       | 100      | H        | $\dashv$ |   |  | $\vdash$ | $\vdash$ | $\vdash$                            | t |
|          | <u> </u> | Ц        | Ц        |  |              | <u> </u>     |              |  | L            | Щ  | J | L     | 100      | L        |          |   | L  |          |          | Ц.                                  | 1 |

| 010   | Olalili        |          |              |          |          | 2011     | _ |   |   |          |
|-------|----------------|----------|--------------|----------|----------|----------|---|---|---|----------|
| Final | Original       |          |              |          |          |          |   |   |   |          |
|       | 51             |          |              |          | $\Box$   |          |   |   |   |          |
|       | 51<br>52<br>53 |          |              |          |          |          |   |   |   |          |
|       | 53             |          |              |          | $\vdash$ |          |   |   |   | -        |
|       | 54             | -        | -            | -        | $\vdash$ | $\vdash$ | - | - |   | -        |
|       | 54<br>55       | $\vdash$ | -            | -        | -        | -        |   |   | - |          |
|       | 55             | -        | -            | -        | -        | -        | _ | - | - | H        |
|       | 56             | ⊢        | $\vdash$     | <u> </u> | $\vdash$ | $\vdash$ | _ | _ | _ |          |
|       | 57             | <u> </u> | _            | _        | <u> </u> |          | _ |   |   | _        |
|       | 58             |          |              | _        | _        |          |   |   |   |          |
|       | 59<br>60       |          | lacksquare   |          | _        |          |   |   |   | _        |
|       | 60             |          |              |          |          |          |   |   |   |          |
|       | 61             |          |              | _        |          |          |   |   |   |          |
|       | 62<br>63       |          |              |          |          |          |   |   |   |          |
|       | 63             |          |              |          |          |          |   |   |   |          |
|       | 64             |          |              |          |          |          |   |   |   |          |
|       | 65             |          |              |          |          |          |   |   |   |          |
|       | 65<br>66       |          |              |          | -        |          |   |   |   |          |
|       | 67             |          |              |          |          |          |   |   |   |          |
|       | 68             |          |              |          |          |          |   |   |   |          |
|       | 68<br>69       |          |              |          | -        |          |   |   |   |          |
|       | 70<br>71<br>72 | -        |              | _        | _        |          |   |   |   |          |
|       | 71             | -        |              | $\vdash$ | _        |          | Н |   |   | -        |
| -     | 72             | $\vdash$ | -            | -        |          |          |   |   | _ | -        |
| ļ     | 72             |          | H            | $\vdash$ | _        |          |   |   |   |          |
|       | 74             | $\vdash$ | $\vdash$     | $\vdash$ |          |          |   |   |   | H        |
|       | 73<br>74<br>75 | -        | -            | -        |          |          |   |   |   | _        |
|       | 76             | -        | -            | -        |          |          | - |   |   | -        |
|       | 76<br>77       | -        | -            | -        |          |          |   |   |   |          |
|       | 78             |          | H            | -        |          | -        | - |   |   |          |
|       | 70             | $\vdash$ | H            |          | _        |          |   |   |   | <u> </u> |
|       | 79<br>80       | $\vdash$ | H            | $\vdash$ | _        |          |   |   |   | <u> </u> |
|       | 60             |          | H            | H        | _        |          |   |   |   |          |
|       | 81             | $\vdash$ |              |          | _        |          |   |   |   |          |
|       | 82             |          |              | $\vdash$ | _        |          |   |   |   |          |
|       | 83             |          |              | L        | _        |          | _ |   |   |          |
|       | 84<br>85       |          | _            | _        |          |          | _ |   |   |          |
|       | 85             | _        | _            |          | _        |          |   |   |   |          |
|       | 86             |          |              |          |          |          |   |   |   |          |
|       | 87<br>88       |          |              |          |          |          |   |   |   |          |
|       | 88             |          |              | L        | _        |          |   |   |   |          |
|       | 89             |          |              |          |          |          |   |   |   |          |
|       | 90<br>91       |          |              |          |          |          |   |   |   |          |
|       | 91             |          |              |          |          |          |   |   |   |          |
|       | 92             |          |              |          |          |          |   |   |   | L        |
|       | 93             |          |              |          |          |          |   |   |   |          |
|       | 94             |          | $oxed{\Box}$ |          |          |          |   |   |   |          |
|       | 95             |          |              |          |          |          |   |   |   |          |
|       | 96             |          |              |          |          |          |   |   |   |          |
|       | 97             |          | oxdot        | $\Box$   |          |          |   |   |   |          |
|       | 98             |          |              |          |          |          |   |   |   |          |
|       | 99             |          |              |          |          |          | Ē |   |   |          |
|       | 100            |          |              |          |          |          |   |   | П |          |

|       |                                 | _        |          | • |          |          |          |    | j        |                |  |
|-------|---------------------------------|----------|----------|---|----------|----------|----------|----|----------|----------------|--|
| Cli   | Date                            |          |          |   |          |          |          |    |          |                |  |
| Final | Original                        |          |          |   |          |          |          |    |          |                |  |
|       | 101                             |          | Г        |   |          |          | _        | Т  |          |                |  |
|       | 102<br>103                      |          |          |   |          |          |          |    |          |                |  |
|       | 103                             |          |          |   |          |          |          |    |          |                |  |
|       | 104                             |          | <u> </u> |   |          |          |          |    | <u> </u> |                |  |
|       | 105<br>106                      |          | $\vdash$ |   |          |          |          |    | ├        |                |  |
|       | 107                             |          | <u> </u> |   |          |          | -        | -  | ┢─       | -              |  |
|       | 108                             |          | Т        |   |          |          |          | Т  |          |                |  |
|       | 109                             |          |          |   |          |          |          | Ш  |          |                |  |
|       | 110                             |          | <u> </u> |   |          |          |          |    | L.       |                |  |
|       | 111                             |          | <u> </u> |   | _        |          |          |    | <u> </u> |                |  |
|       | 112<br>113                      |          | $\vdash$ |   |          |          |          |    | $\vdash$ |                |  |
|       | 114                             |          | H        |   | H        |          | H        | H  | $\vdash$ | H              |  |
|       | 115                             |          | Г        |   | Т        | П        |          |    | Г        | П              |  |
|       | 116                             |          |          |   |          |          |          |    |          |                |  |
|       | 117                             |          |          |   |          |          |          |    |          |                |  |
|       | 118                             |          | <u> </u> |   |          |          |          |    | <u> </u> |                |  |
|       | 119<br>120                      |          | ┝        |   |          |          | _        |    | $\vdash$ |                |  |
|       | 121                             |          | $\vdash$ |   |          | -        |          |    | ┢┈       |                |  |
|       | 122                             | -        | ┢        |   |          |          |          |    | $\vdash$ |                |  |
|       | 121<br>122<br>123<br>124<br>125 |          |          |   |          |          |          |    |          |                |  |
|       | 124                             |          | Ш        |   |          |          |          |    | L        |                |  |
|       | 125                             |          | L        |   | _        |          |          |    | L.,      |                |  |
|       | 126                             |          | -        |   | _        |          |          |    | -        | -              |  |
|       | 127<br>128<br>129               |          | _        |   |          | _        |          |    |          | Н              |  |
|       | 129                             |          | -        |   |          |          |          | _  |          | Н              |  |
|       | 130<br>131                      |          |          |   |          |          |          |    |          |                |  |
|       | 131                             |          |          |   |          |          |          |    |          |                |  |
|       | 132                             |          |          |   |          | _        | _        |    | _        | $\dashv$       |  |
|       | 133<br>134                      |          | _        |   | _        | _        | _        |    | -        | Н              |  |
|       | 135                             |          |          |   |          | _        |          |    |          | Н              |  |
|       | 136                             |          |          |   |          |          |          |    |          | $\neg$         |  |
|       | 137                             |          |          |   |          |          |          |    |          |                |  |
|       | 138                             |          | _        |   |          |          |          |    | _        | Щ              |  |
|       | 139                             |          |          |   |          |          |          |    | _        | Н              |  |
|       | 140<br>141                      |          | _        |   |          |          |          |    |          | $\dashv$       |  |
|       | 142                             |          | Н        |   | -        | -        |          |    | H        |                |  |
|       | 143                             |          |          |   |          |          |          |    |          |                |  |
|       | 144                             |          |          |   |          |          |          |    |          |                |  |
|       | 145                             |          | <u> </u> |   |          |          | <u> </u> | L  | <u> </u> | $\blacksquare$ |  |
|       | 146<br>147                      |          | <u> </u> | H | <u> </u> | $\vdash$ | ٠        | H  | $\vdash$ | Н              |  |
|       | 148                             | $\vdash$ | $\vdash$ | Н | Η-       | ┝        |          | ┝┤ | H        | $\vdash$       |  |
|       | 149                             |          | Н        | Т |          | ┢        |          | Н  | T        | Н              |  |
|       | 150                             |          |          |   |          |          |          |    |          |                |  |
|       |                                 |          |          |   |          |          |          |    |          |                |  |